eoCompass™

Monitor, troubleshoot and optimize the radio access network

Introduction

80% of problems that a subscriber experiences are due to issues in the radio network. These problems result in:

- Dropped calls
- Call setup failures
- Inability to connect to the network
- Slow download speed
- Missed calls

The effects of these problems are:

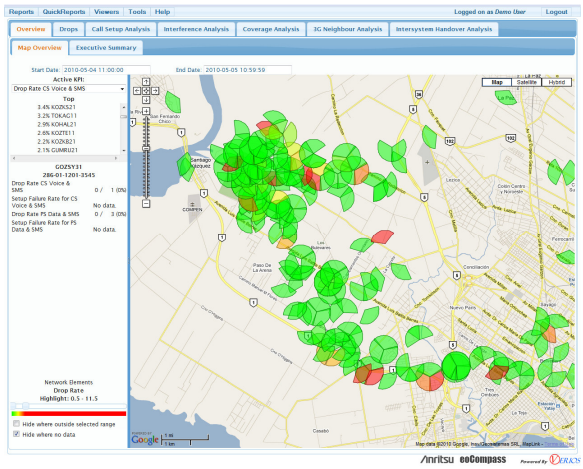
- Direct loss of revenue
- Increased churn rate due to customer dissatisfaction
- Increased customer care costs
- Increased engineering costs to find and resolve the problem

Bring radio network management in from the cold. No more wasted hours, driving around making test calls, increasing your carbon footprint, tying up human and capital resources for weeks on end running drive test campaigns. There is a better way- the eoCompass™ way.

Your engineers, planners and optimizers can have the whole radio network on their desktop; all the KPIs they need: radio quality, traffic levels, trends, quality of service, device types, updated in real time and archived for analysis. Problems can be subjected to detailed analysis, down to examining the changing radio performance during an individual call.

Our radio experts understand your requirements. Anritsu has been providing radio analysis tools for over a decade. With eoCompass™, you continuously capture real customer's activity directly off the network. Unlike drive testing, there is no disconnect from test calls to actual customer experience.

eoCompass™ is an application developed for the MasterClaw® System.



Key benefits

- Reduce drive testing. Cut OpEx cost and reduce your carbon footprint
- Detect and correct coverage and interference issues faster, improving network performance and reducing lost revenue
- Flexible work assignments. Experts can work on issues anywhere in the network, without leaving their desk
- Fully integrated with MasterClaw® for maximum work efficiency

Key features

- Radio and service quality analysis
- Guided work-flows designed to lead the user through the most popular tasks
- Drill-down from network-wide KPIs to individual calls/data sessions
- Integrated with Google Maps to geo-locate issues and easy switch to satellite view to identify affected customers

Application Overview

Features

eoCompass™ is a multi-functional OSS for the UMTS Radio Access Network. eoCompass™ is vendor independent and supports multi-vendor deployment. No matter which vendor, or how many vendors you have, eoCompass™ is your best path for RAN management.

eoCompass™ builds on the highly successful GSM Compass tool, but takes it to the next level.

From high level, network wide status, to detailed analysis within a single sector of one site, eoCompass™ clearly displays the key performance indicators you need. Easily view the radio quality and quality of service being provided to your subscribers.

Views automatically refresh, giving you the current view of network performance.

eoCompass supports:

- Coverage analysis allowing detecting of areas of poor coverage
- Interference analysis allowing detection of issues such as pilot pollution and low dominance
- Neighbour analysis allowing detection of missing neighbours
- Dropped call analysis with root cause identification
- Call Setup Failure analysis with root cause identification
- Registration analysis showing causes of registration failures
- Overshooting analysis
- Handover analysis for:
    - Soft & Softer Handover
    - Inter-frequency Handover
    - Inter System Handover
- HSDPA, HSUPA, HSPA+ analysis & their effect on the network
- RAB Analysis showing the effect of multi-RABs
- NodeB power analysis
- Roaming analysis showing where roamers access the network and why they experience problems
- Handset Analysis showing dropped call rate, usage and errors

eoCompass™ provides intelligent workflows which are integrated with geographical maps and reports to allow easy but detailed analysis of network performance.

eoCompass™ is an integral part of Anritsu's Service Intelligence product suite, built on the foundation of the MasterClaw® Service Assurance system.

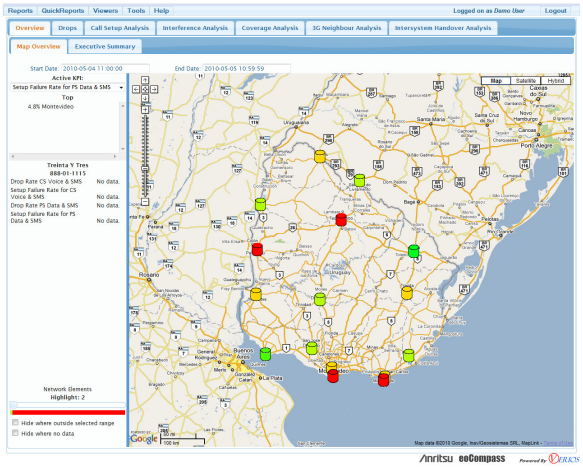


Figure 1: Network-wide Performance by RNC

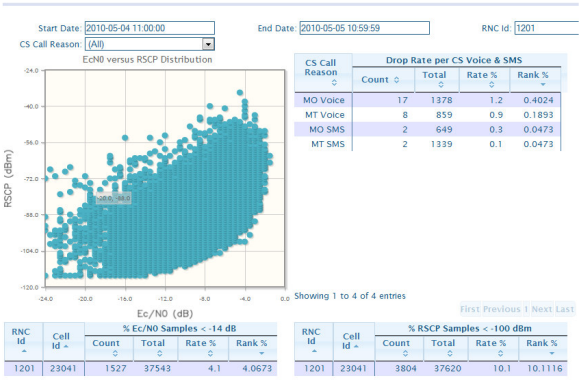


Figure 2: Cell Analysis

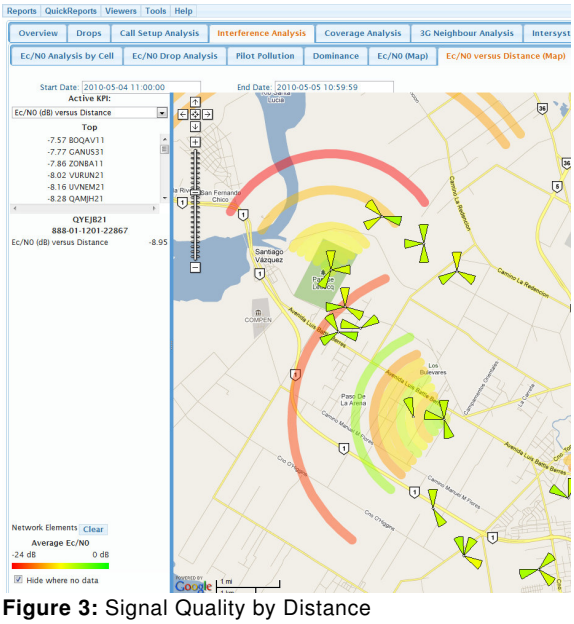


Figure 3: Signal Quality by Distance

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